



STATE OF MONTANA  
PUBLIC SAFETY COMMUNICATIONS BUREAU

**COST RECOVERY GUIDELINES FOR MONTANA  
WIRELESS E9-1-1 SERVICE PROVIDERS**

(Effective Date: July 1, 2007)

The following criteria has been established for Montana wireless service providers seeking cost recovery for network element upgrades and services exclusively associated with location-based, Phase I and II, wireless E9-1-1. These guidelines were meant to assist Montana wireless service providers with invoicing for cost recoverable network elements and services as described in 10-4-(101-313) MCA, and ARM 2.13.(201-207). To receive cost recovery reimbursement:

- Eligible wireless service providers must submit an invoice to the department on a quarterly basis. The department address is: State of Montana, 9-1-1 Office, DOA/PSCB, Attn: Rhonda Sullivan, PO Box 200113, Helena, MT 59620-0113.
- Invoices must be received by the department within 30 calendar days following the end of each quarter.
- Invoices should indicate the fiscal quarter for which they are applying; not the calendar quarter.
- Invoicing is on a per 9-1-1-jurisdictions basis, and these jurisdictions do not always match up with county boundaries. See the 9-1-1 jurisdiction list at the end of this document.
- All allowable costs must be clearly identified in single line-item charges.
- The wireless service provider must include copies of receipts for each line item charge, including the date of purchase.
- The wireless service provider may submit a single invoice for multiple 9-1-1 jurisdictions, as long as the itemized costs for each jurisdiction are listed separately.
- Wireless service providers must include the date when Phase I or Phase II was turned up with the 9-1-1 jurisdiction.
- Service providers must include the total number of wireless subscribers within each 9-1-1 jurisdiction for which they are seeking cost recovery. Subscribers within a jurisdiction are based on the primary place of use.
- The invoice must display the total amount due to the service provider, including address to remit funds, as well as any unpaid balances from previous quarters.

The following location-based network elements are eligible for cost recovery:

1. Mobile Switching Center (MSC): This item relates to MSC enhancements necessary for the delivery of location information to the appropriate E9-1-1 selective router, and may include costs associated with:
  - MSC hardware upgrades
  - MSC hardware purchases
  - MSC hardware installation

- MSC hardware testing
  - MSC software upgrades
  - MSC software purchases
  - MSC software installation
  - MSC software testing
  - MSC software programming
  - MSC right-to-use licensing
  - Recurring MSC operations
  - Recurring MSC administration
  - Recurring MSC maintenance
2. This item relates to transport services necessary to deliver E9-1-1 calls from the MSC to the selective routers, and may include costs associated with:
- Transport system hardware upgrades
  - Transport system hardware purchases
  - Transport system hardware installation
  - Transport system hardware testing
  - Transport system software upgrades
  - Transport system software purchases
  - Transport system software installation
  - Transport system software testing
  - Recurring carrier transport services from the MSC to the E9-1-1 selective routers
- NOTE: Allowable costs for transport services will be limited to a maximum of 2 trunks to each selective router. Additional trunks will be considered for cost recovery with a qualified traffic study provided by the wireless service provider.
3. This item relates to selective router services necessary for the routing and delivery of E9-1-1 calls to the appropriate PSAP and may include costs associated with:
- Nonrecurring selective router connection charges
  - Recurring selective router charges
  - Recurring port charges
  - Nonrecurring T1 DACS charges
  - Recurring T1 DACS charges
4. This item relates to network and Signaling System 7 (SS7) services necessary for E9-1-1 signaling and location-based services, and may include costs associated with:
- Recurring SS7 port charges
  - Recurring SS7 link charges
5. This item relates to Mobile Positioning Center (MPC) and Location Monitoring Unit Controller (LMUC) functionality, and may include costs associated with:
- MPC/LMUC hardware upgrades
  - MPC/LMUC hardware purchases
  - MPC/LMUC hardware installation
  - MPC/LMUC hardware testing
  - MPC/LMUC software upgrades
  - MPC/LMUC software purchases
  - MPC/LMUC software installation
  - MPC/LMUC software testing
  - MPC/LMUC software programming

- Recurring MPC/LMUC Maintenance
- Recurring MPC/LMUC 3<sup>rd</sup>-Party Services

6. This item relates to 3<sup>rd</sup>-party location based data services and systems administration for antenna sites, and may include costs associated with:
  - Database Administration Services
  - Position Determining Services
  - Location Monitoring Services

NOTE: Wireless service providers seeking cost recovery for antenna site administration must provide to the department the antenna site location. Regarding the format for antenna location information, please contact the department.

7. This item relates to Position Determining Equipment (PDE) and Location Monitoring Unit (LMU) functionality per antenna site and may include costs associated with:
  - PDE/LMU hardware upgrades
  - PDE/LMU hardware purchases
  - PDE/LMU hardware installation
  - PDE/LMU hardware testing
  - PDE/LMU software upgrades
  - PDE/LMU software purchases
  - PDE/LMU software installation
  - PDE/LMU software testing
  - PDE/LMU software programming
  - Recurring PDE/LMU administration
  - Recurring PDE/LMU maintenance

NOTE: Wireless service providers seeking cost recovery for antenna hardware and software upgrades must provide to the department the antenna site location. Regarding the format for antenna location information, please contact the department.

8. This item relates to Operational charges exclusive to location based emergency 9-1-1 services and may include testing and operational support elements.

For questions about cost recovery or these Guidelines contact:

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 9-1-1 Program Manager  
 State of Montana, Public Safety Communications Bureau  
 (406) 444-2420  
[RSullivan@mt.gov](mailto:RSullivan@mt.gov)

(Last Updated: 11/17/10)

## MT Jurisdictions List

White = 1 PSAP per county
City PSAP within a county: does not take county 9-1-1 calls
1 PSAP for two counties
1 PSAP for four counties
1 PSAP for county, excluding a central city
Native American Reservation Boundary, not County
1 PSAP for City but also takes 9-1-1 calls for neighboring counties

PSAP Jurisdiction:	Notes / Comments:
1 Anaconda/Deer Lodge County	
2 Beaverhead County	
3 Big Horn County	
4 <b>Blackfeet Reservation</b>	Reservation Boundary, not County (crosses into Glacier / Pondera)
5 Blaine County	
6 Broadwater County	
7 Butte/Silver Bow County	
8 Carbon County	
9 Cascade County	
10 <b>Central MT</b>	City of Lewistown plus Judith Basin and Petroleum Counties
11 Chouteau County	
12 <b>Custer/Garfield Counties</b>	PSAP in Miles City for both Custer and Garfield Counties
13 Daniels County	
14 Dawson County	
15 <b>Fallon/Carter/Wibaux/Prairie Counties</b>	PSAP in Baker for Carter, Wibaux, Prairie, and Fallon Counties
16 <b>Fergus County</b>	PSAP in Lewistown, but Central MT takes Lewistown 9-1-1 calls
17 Flathead County	
18 <b>Gallatin County</b>	PSAP in Bozeman for Gallatin, but city of West Yellowstone on own
19 <b>Gardiner/Cooke City</b>	City PSAP in Gardner within Park County
20 Glacier County	
21 Granite County	
22 Hill County	
23 Jefferson County	
24 Lake County	
25 <b>Laurel</b>	City PSAP in Laurel within Yellowstone County
26 Lewis & Clark County	
27 Liberty County	
28 Lincoln County	
29 Madison County	
30 McCone County	
31 Meagher County	
32 Mineral County	
33 Missoula County	
34 Musselshell County	
35 <b>Northern Cheyenne Reservation</b>	Reservation Boundary, not County (crosses into Big Horn / Rosebud)
36 <b>Park County</b>	PSAP in Livingston, but does not take Gardner / Cooke City 9-1-1 calls
37 Phillips County	
38 Pondera County	
39 Powder River County	
40 Powell County	
41 Ravalli County	
42 Richland County	
43 <b>Rocky Boy's Reservation</b>	Reservation Boundary, not County (crosses into Hill / Chouteau)
44 Roosevelt County	
45 <b>Rosebud/Treasure Counties</b>	PSAP in Fosyth, takes calls for both Rosebud and Treasure Counties
46 Sanders County	
47 Sheridan County	
48 Stillwater County	
49 Sweetgrass County	
50 Teton County	
51 Toole County	
52 Valley County	
53 <b>West Yellowstone</b>	City PSAP in West Yellowstone within Gallatin County
54 <b>Wheatland/Golden Valley Counties</b>	PSAP in Harlowton for both Wheatland and Golden Valley Counties
55 <b>Yellowstone County</b>	PSAP in Billings, does not take Laurel 9-1-1 calls